

Day 4 - Thursday, May 14, 2015:

Location: Georgia State University Student Center, Auditorium

9:00 am **Daily announcements**
(Sebastien Lepine - LOC chair)

Session 4 - Planets and planetesimals orbiting NYMG members: understanding giant and terrestrial planet formation.

9:10 am **Review talk**
Giant Planet Formation.
(C. Mordasini, Max Planck Institut für Astronomie)

9:40 am **Review talk**
Direct Imaging Searches for Planets: Status.
*(G. Chauvin, Institut de Planétologie et d'Astrophysique de Grenoble)**

10:10 am **Focus talk**
Mapping the Distributions of Exoplanet Populations from Direct Imaging Surveys
(E. Nielsen, SETI Institute)

10:30 am ***Coffee break and poster viewing.***

11:00 am **Review talk**
Directly Imaged Giant Planets: What do we Hope to Learn.
*(Mark Marley, NASA Ames) **

11:30 am **Contributed talk**
Near-infrared spectroscopy of Brown Dwarf and Planetary-mass Members in Upper Scorpius.
(Nicolas Lodieu, IAC Tenerife)

11:40 am **Focus talk**
What can Young Brown Dwarfs Tell Us About Exoplanets.
*(Katelyn Allers, Bucknell University) **

12:00 pm **Contributed talk**
Fundamental Properties of an Age Calibrated Sample of Brown Dwarfs.
(Jaqueline Faherty, Carnegie DTM - AMNH)

12:10 pm ***Open discussion***

12:30 pm ***Lunch break and poster viewing.***

- 2:00 pm** **Focus talk**
Theoretical Models of Planet Structure and Evolution.
*(Gilles Chabrier, CRAL - ENS-Lyon) **
- 2:20 pm** **Contributed talk**
Testing Models of Substellar Evolution with Dynamical Masses.
(Trent Dupuy, University of Texas at Austin)
- 2:30 pm** **Contributed talk**
Planets and Binaries Around Young Low-Mass Stars.
(Brendan Bowler, California Institute of Technology)
- 2:40 pm** **Contributed talk**
A young planetary mass companion to the nearby M dwarf VHS.
(Bartek Gauza, Instituto de Astrofisica de Canarias)
- 2:50 pm** **Contributed talk**
The evaporation of Young Planet Atmospheres: Multi-dimensional Hydrodynamics of Escape and Star-Planet Interactions.
(Adam Frank, University of Rochester)
- 3:00 pm** **Review talk**
The Formation of Planetesimals and their Evolution Towards Terrestrial Planets.
*(Andrew Youdin, Steward Observatory, U. of Arizona) **
- 3:30 am** ***Coffee break and poster viewing.***
- 4:30 pm** **Focus talk**
Stochastic Processes in Planetesimal Belt.
*(Carl Melis, UC San Diego) **
- 4:50 pm** **Contributed talk**
Insights on the Dynamical History of the Fomalhaut System - Investigating the Form c hypothesis.
(Virginie Faramaz, Institute of Astrophysics - Universidad Catolica de Chile)
- 5:00 pm** ***Open discussion***
- 5:30 pm** ***Adjourn for the day.***
- 6:00 pm --** **Evening banquet**
Location: The Freight Depot, 65 Martin Luther King Jr. Drive NW
- 8:00 pm** **Banquet keynote review.**
Fourth Day of Creation: Pre-History of Young Stars, Exoplanets.
(Virginia Trimble, U. California Irvine and LCGOT)